

ON-CHIP HIGH-PASS FILTER WITH LARGE TIME CONSTANT

Abstract

An on-chip high-pass filter with large time constant comprising a capacitor, a first transistor having a first terminal connected to a first voltage source and a second terminal connected to the capacitor, and a second transistor having a first terminal connected to the second terminal of the first transistor and a second terminal connected to ground, wherein the first transistor and the second transistor are for operating as a large-resistance resistor. The electrical equivalent large-resistance resistor and the capacitor together form a high-pass filter between the input port and the output port.